

**In the Claims:**

1. (currently amended) A polymer composition which [[can be]] is produced by polymerisation of:

- a) 1 to 50%-wt of polar (meth)acrylates with Zerewitinoff hydrogen, said polar (meth)acrylates being selected from the group consisting of 2-hydroxyethyl (meth)acrylate, 3-hydroxypropyl (meth)acrylate, 4-hydroxybutyl (meth)acrylate, PEG (meth)acrylates, PPG (meth)acrylates, 2-aminoethyl (meth)acrylate, 3-aminopropyl (meth)acrylate, 4-aminobutyl (meth)acrylate, reaction products of acrylic or methacrylic acid with bi-, tri- or higher functional alcohols, and ethoxylation, propoxylation and butoxylation products of acrylic or methacrylic acid with terminal hydroxy, amino, urethane or thio groups containing at least one active hydrogen;
- b) 50 to 99%-wt. of apolar (meth)acrylates;
- c) in the presence of a bi-, tri- or higher functional (meth)acrylate, or of a (poly)functional compound which is reactive to Zerewitinoff hydrogens and is selected from the group consisting of mono-, bi- and polyepoxides, mono-, bi- and polyaziridines and melamine and its derivatives, or of a mixture of two or more of the aforementioned compounds, the weight percentages indicated under a) to c) adding up to 100%-wt.;
- d) with addition of 0.05 to 5%-wt. of an initiator, relative to the sum of the components of a) to c); and
- e) up to 90%-wt. of a liquid, chemically inert medium, relative to the solid matter content of the sum of the components of a) to d).

2. (previously presented) The polymer composition according to claim 1, wherein said polar (meth)acrylates do not contain carboxyl groups.

3. (previously presented) The polymer composition according to claim 1, wherein said polar (meth)acrylates are hydroxy(meth)acrylates.

4. (previously presented) The polymer composition according to claim 1, wherein said polar (meth)acrylates are amino(meth)acrylates.

5. (previously presented) The polymer composition according to claim 1, wherein said apolar (meth)acrylates are esterification products of acrylic acid or methacrylic acid with monovalent alcohols or amines.

6. (previously presented) The polymer composition according to claim 5, wherein said apolar (meth)acrylates are alkyl (meth)acrylamides.

7. (previously presented) The polymer composition according to claim 6, wherein said apolar (meth)acrylates are esterification products of acrylic acid or methacrylic acid with monohydric alcohols having 6 to 15 C atoms.

8. (previously presented) The polymer composition according to claim 7, wherein said apolar (meth)acrylates are selected from the group consisting of methyl (meth)acrylate, ethyl (meth)acrylate, butyl (meth)acrylate, hexyl (meth)acrylate, isooctyl (meth)acrylate, 2-ethylhexyl (meth)acrylate, isodecyl (meth)acrylate and isobornyl (meth)acrylate.

9. (previously presented) The polymer composition according to claim 1, wherein said di-, tri- or higher functional (meth)acrylates are selected from the group consisting of the conversion products of (meth)acrylic acid with diols, triols or polyols, the analogous vinyl ethers or mixtures thereof, (meth)acrylated polyesters and (meth)acrylated polyurethanes.

10. (previously presented) The polymer composition according to claim 9, wherein said (meth)acrylated polyesters are conversion products of OH-terminated polyester polyols with (meth)acrylic acid or reaction products of carboxyl groups-containing polyester polyols with hydroxyl groups-containing (meth)acrylates.

11. (previously presented) The polymer composition according to claim 9, wherein said (meth)acrylated polyurethanes are conversion products of amine- or hydroxyl-terminated (meth)acrylates with diisocyanates or polyisocyanates.

12. (previously presented) The polymer composition according to claim 1, wherein said polymer composition contains a further compound which is reactive to Zerewitinoff hydrogen and which is selected from the group consisting of mono-, di- and polyisocyanates.

13. (previously presented) A process for the production of a polymer composition according to claim 1, said process comprising a polymerisation reaction which is performed free of solvent, or in a liquid selected from the group consisting of water and an organic, inert solvent.

14. (canceled)

15. (previously presented) Use of the polymer composition according to claim 1 for the production of pressure sensitive adhesive tapes including the steps of:

spreading the polymer or polymer solution on a carrier to form a polymer film; and

subsequently drying or curing the polymer film.

16. (previously presented) The polymer composition according to claim 7, wherein said apolar (meth)acrylates are esterification products of acrylic acid or methacrylic acid with monohydric alcohols having 6 to 10 C atoms.